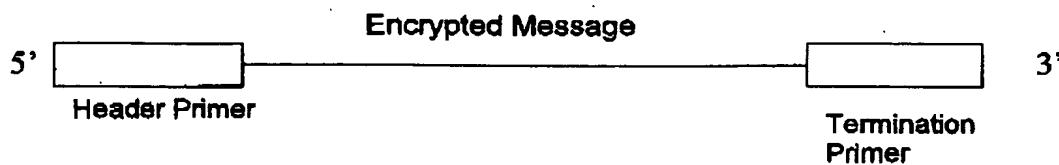
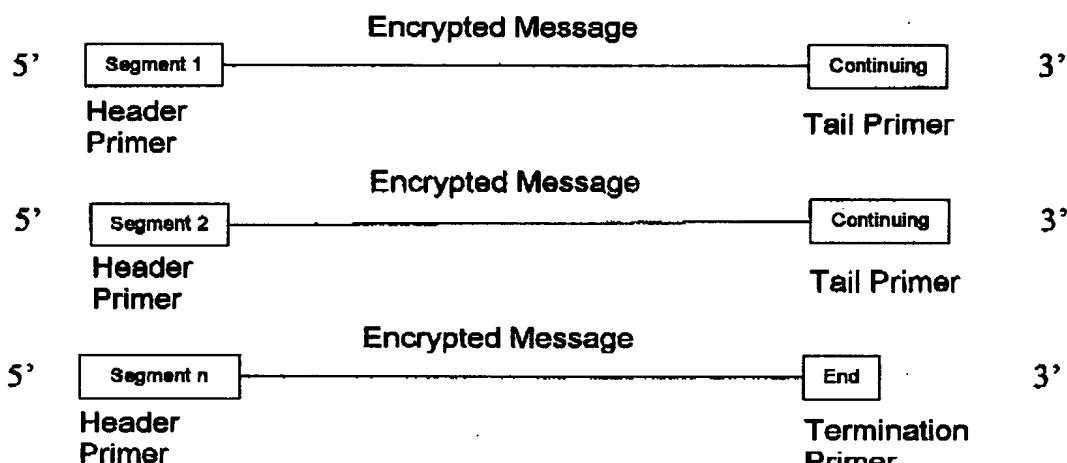


U 015121-7

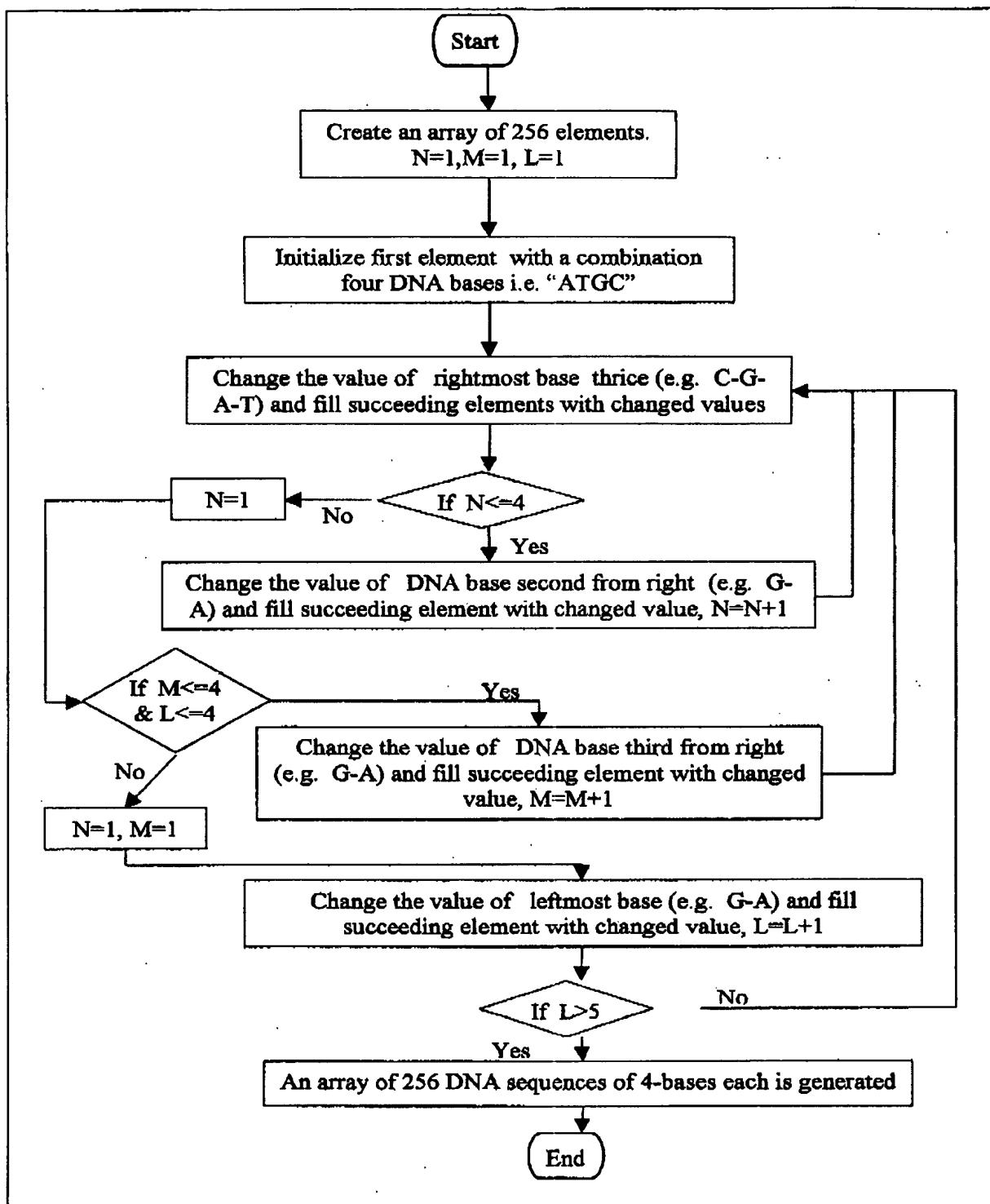


**Fig. 1a. Single Segment**



**Fig. 1b. Multi Segment**

U 015121-7

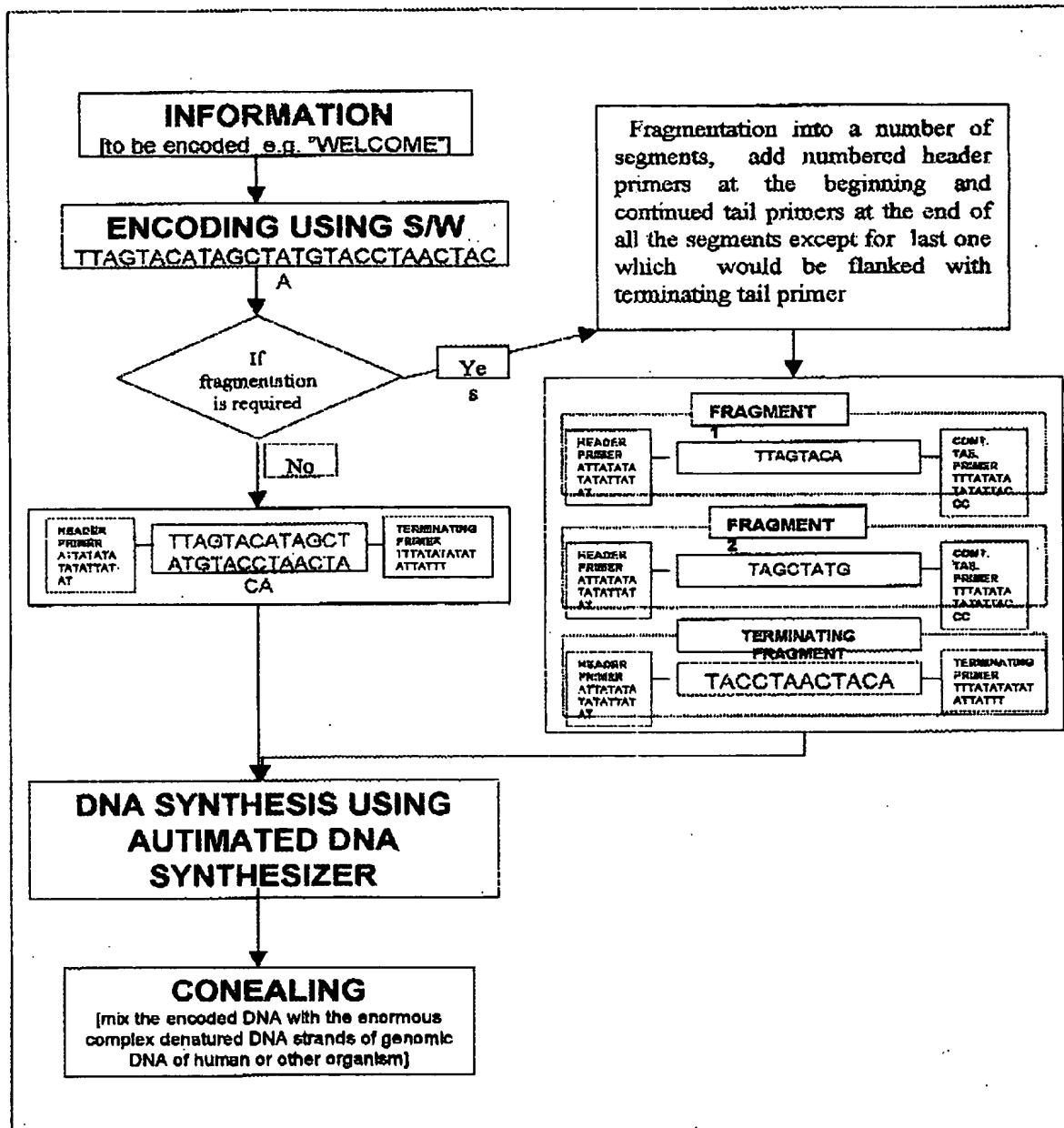
**Fig. 2. Encryption of extended ASCII character set in terms of DNA bases**

U 015121-7

**Fig 3. Encryption Key. ASCII characters in terms of DNA strands**

Dec	A S C II	DNA CODE															
0		ATCG	44	-	ACGA	88	X	TTAA	132	"	CGTA	176	*	CCCA	220	Ü	GGGT
1	□	ATCG	45	-	AGAA	89	Y	TTTA	133	..	CGCA	177	±	CCGA	221	Ý	GGAT
2	□	ATAC	46	.	AGTA	90	Z	TTCA	134	†	CGGA	178	‡	CCAA	222	þ	GGTT
3	□	ATTG	47	/	ACCA	91	I	TTGA	135	‡	CCAA	179	³	CCTA	223	ß	GGCT
4	□	ATTA	48	0	AACA	92	\	TTGT	136	·	CGAT	180	·	CCTT	224	à	GACT
5	□	ATCA	49	1	AAGA	93	]	TTAT	137	%	CGTT	181	µ	CCCT	225	á	GAGT
6	□	ATCA	50	2	AAAA	94	^	TTTT	138	§	CGCT	182	¶	CCGT	226	â	GAAT
7		ATAA	51	3	AATA	95	-	TTCT	139	·	CGGT	183	·	CCAT	227	ã	GATT
8	□	ATAT	52	4	AATT	96	‐	TCCT	140	ç	CGGC	184	,	CCAC	228	ã	GATC
9		ATTT	53	5	AACT	97	¤	TGCT	141	¤	CGAC	185	¹	CCTC	229	ã	CACC
10		ATCT	54	6	AAGT	98	¤	TCAT	142	¤	CGTC	186	º	CCCC	230	æ	GAGC
11		ATGT	55	7	AAAT	99	¤	TCTT	143	¤	CGCC	187	»	CCGC	231	ç	GAAC
12		ATGC	56	8	AAAC	100	¤	TCTC	144	¤	CAC	188	¼	CCGG	232	è	CAAC
13		ATAC	57	9	AATC	101	¤	TCCC	145	‘	CAGC	189	½	CCAG	233	é	GATG
14		ATTC	58	:	AACC	102	f	TGGC	146	’	CAAC	190	¾	CCTG	234	ë	GACG
15	□	ATCC	59	;	AAGC	103	g	TCAC	147	“	CATC	191	¼	CCCG	235	ë	GAGG
16	□	ACCC	60	<	AAGG	104	h	TCAG	148	”	CATG	192	À	GCCG	236	í	GAGA
17	□	ACCG	61	=	AAAG	105	i	TCTG	149	•	CACG	193	À	GCGG	237	í	GAAA
18	□	ACAC	62	>	AATG	106	j	TCCG	150	-	CAGG	194	À	CCAG	238	í	GATA
19	□	ACTC	63	?	AACG	107	k	TGGG	151	-	CAAG	195	À	GCTG	239	í	GACA
20	□	ACTG	64	@	TACG	108	l	TCGA	152	-	CAAA	196	À	GCTA	240	ß	GTCA
21	□	ACCG	65	A	TAGG	109	m	TCAA	153	”	CATA	197	À	CCCA	241	ñ	GTCA
22	□	ACGG	66	B	TAAG	110	n	TCTA	154	ë	CACA	198	À	CCGA	242	ð	GTAA
23	□	ACAG	67	C	TATG	111	o	TCCA	155	›	CAGA	199	À	CCAA	243	ð	GTTA
24	□	ACAA	68	D	TATA	112	p	TGCA	156	ø	CAGT	200	È	CCAT	244	ð	GTTT
25	□	ACTA	69	E	TACA	113	q	TGGA	157	¤	CAAT	201	È	CCTT	245	ð	GTCT
26	□	ACCA	70	F	TAGA	114	r	TGAA	158	¤	CATT	202	È	GCCT	246	ð	GTGT
27	□	ACGA	71	G	TAAG	115	s	TGTA	159	Ý	CACT	203	È	GGCT	247	+	GTAT
28	□	ACGT	72	H	TAAT	116	t	TGTT	160	¤	CTCT	204	È	GGCG	248	ð	CTAC
29	□	ACAT	73	I	TATT	117	u	TGCT	161	ì	CTGT	205	È	GCAC	249	ð	TTTC
30	-	ACTT	74	J	TACT	118	v	TGCT	162	¤	CTAT	206	È	CCTC	250	ñ	GTCC
31		ACCT	75	K	TAGT	119	w	TGAT	163	£	CTTT	207	Ý	GGCC	251	ð	GTGC
32		AGCT	76	L	TAGC	120	x	TGAC	164	¤	CTTC	208	È	GGCC	252	ñ	GTGG
33	!	AGGT	77	M	TAAC	121	y	TGTC	165	Ý	CTCC	209	Ñ	GGGC	253	ý	GTAG
34	”	AGAT	78	N	TATC	122	z	TGCC	166	ì	CTGC	210	Ø	GGAC	254	þ	TTTG
35	#	AGTT	79	O	TACC	123	(	TGGC	167	§	CTAC	211	Ø	GGTC	255	ý	GTGG
36	\$	AGTC	80	P	TTCC	124	)	TGGG	168	-	CTAG	212	Ø	GGTG			
37	%	AGCC	81	Q	TTGC	125	)	TGAG	169	©	CTTG	213	Ø	GGCG			
38	&	AGGC	82	R	TTAC	126	~	TGTC	170	•	CTCG	214	Ø	GGGG			
39	'	AGAC	83	S	TTTC	127	¤	TGCC	171	¤	CTGG	215	¤	GGAC			
40	(	AGAG	84	T	TTTG	128	¤	CGCG	172	-	CTGA	216	Ø	GGAA			
41	)	AGTC	85	U	TTCC	129	¤	CGGG	173	-	CTAA	217	Ü	GGTA			
42	*	AGCG	86	V	TTGG	130	,	CGAG	174	©	CTTA	218	Ü	GGCA			
43	+	ACGG	87	W	TTAG	131	f	CGTG	175	¤	CTCA	219	Ü	GGGA			

U 015121-7

**Fig.4. Process sheet for encryption & storage**

U 015121-7

**Fig.5. Process summary**